

Version With Markings To Show Changes Made

Attached hereto is a marked-up version of the changes made to the claims by the current amendment. The attached pages are captioned VERSION WITH MARKINGS TO SHOW CHANGES MADE.

Summary

An early action on the merits of this application is respectfully requested. Should any points remain in issue, which the Examiner feels could best be resolved by either a personal or a telephone interview, it is urged that Applicant's local attorney be contacted at the exchange listed below.

Respectfully submitted,

Date: July 3, 2002

By:



Bruce H. Troxell
Reg. No. 26,592

TROXELL LAW OFFICE PLLC
5205 Leesburg Pike, Suite 1404
Falls Church, Virginia 22041
Telephone: 703 575-2711
Telefax: 703 575-2707



VERSION WITH MARKINGS TO SHOW CHANGES MADE

IN THE SPECIFICATION:

Paragraph beginning at prenumbered line 4 of page 1 has been amended as follows:

The present invention is related to an improved structure of an electronic target unit for BB guns, and especially to an electronic target unit for guns with a virtual effect of hitting of bullets through a target paper during shooting, and bullet hitting can be detected by the sensitive target to show the results of scores on a display screen, the bullets can be recovered into a collecting bin.

Paragraph beginning at prenumbered line 1 of page 2 has been amended as follows:

In view of this, the inventor studied and developed the present invention after multiple experiments.

Paragraph beginning at prenumbered line 4 of page 2 has been amended as follows:

The primary object of the present invention is to provide an improved structure of an electronic target unit with a virtual effect of hitting bullets through a target paper during shooting, and the sensitive target can detect hitting of bullets to show the results of scores on a display screen, the bullets can be recovered into a collecting bin.

Paragraph beginning at prenumbered line 9 of page 2 has been amended as follows:

To achieve the above stated object, the present invention provides an improved structure of an electronic target unit comprising: a housing having a receiving area for movably mounting a target paper; a sensitive target provided in the housing right in opposition to the target paper and provided with a sensing circuit for sensing the electronic signals generated when in hitting of bullets; a

VERSION WITH MARKINGS TO SHOW CHANGES MADE

scoring circuit connected with the sensing circuit for counting and provided with a display screen mounted on the housing to show the results of scores; and a recovering bin connected to the lower portion of the housing to collect and recover bullets.

Paragraph beginning at prenumbered line 5 of page 3 has been amended as follows:

Referring firstly to Figs. 1-7, the improved structure of electronic target unit for guns of the present invention is comprised mainly of: a housing 1, a sensitive target 2, a scoring circuit 3 and a recovering bin 4. Wherein:

Paragraph beginning at prenumbered line 17 of page 3 has been amended as follows:

In practical application, the housing 1 is not limited to any shape, it can be round, triangle or rectangular. The housing 1 has an opening 13 at the position just ahead of the hitting area, and is pivotally connected with a liftable transparent framing cover 14. A bullet passage 15 integrally formed by enclosing of the wall of the housing 1 and the recovering bin 4 is located below the opening 13. A notch 41 is provided at a suitable position on the recovering bin 4 for movably inserting therein a drawer 42. The target paper 12 has a supporting paper frame 19 provided on the periphery thereof. The receiving area 11 on the housing 1 is slightly recessed to form a lower step 18.

Paragraph beginning at prenumbered line 4 of page 5 has been amended as follows:

Referring to Fig. 7, the housing 1 of the present invention can be designed to omit the framing cover 14, instead, a plurality of "┐" shaped rails 5 can be provided at both side of the opening 13, so that the whole combination can be made with a less expensive die and of less expensive material to thereby reduce the cost

VERSION WITH MARKINGS TO SHOW CHANGES MADE

of production. The target paper 12 can still be inserted therein to get the same object of changing a target paper 12.

IN THE ABSTRACT:

The Abstract has been amended as follows:

An improved structure of electronic target unit comprising: a housing having a receiving area for movably mounting a target paper, a sensitive target provided in the housing right in opposition to the target paper and provided with a sensing circuit for sensing the electronic signals generated when in hitting of bullets, a scoring circuit connected with the sensing circuit for counting and provided with a display screen mounted on the housing to show the results of scores, and a recovering bin connected to the lower portion of the housing to collect and recover bullets, with the target unit, a virtual effect of hitting of bullets through a target paper during shooting is obtained, and bullet hitting is detected by the sensitive target to show the results of scores on the display screen, the bullets are recovered into the collecting bin.

IN THE CLAIMS:

Claims 1-8 have been amended as follows:

1. (Amended) An improved structure of electronic target unit comprising:
a housing having a receiving area for movably mounting a target paper,
a sensitive target provided in said housing right in opposition to said target paper and provided with a sensing circuit for sensing the electronic signals generated when in hitting of bullets,
a scoring circuit connected with said sensing circuit for counting and provided with a display screen mounted on said housing to show the results of scores, and

VERSION WITH MARKINGS TO SHOW CHANGES MADE

a recovering bin connected to the lower portion of said housing to collect and recover bullets,

10 with said target unit, a virtual effect of hitting of bullets through a target paper during shooting is obtained, and bullet hitting is detected by said sensitive target to show the results of scores on said display screen, said bullets are recovered into said collecting bin.

2. (Amended) The improved structure of electronic target unit as in claim 1, wherein,

5 said housing has an opening at the position just ahead of a hitting area, and is pivotally connected with a liftable transparent framing cover, a bullet passage integrally formed by enclosing of the wall of said housing and said recovering bin is located below said opening, a notch is provided on said recovering bin for movably inserting therein a drawer.

3. (Amended) The improved structure of electronic target unit as in claim 1, wherein,

a plurality of " Γ " shaped rails are provided at both sides of said opening, so that said target paper is adapted to inserting therein.

4. (Twice Amended) The improved structure of electronic target unit as in claim 2, wherein,

5 said target paper has a supporting paper frame provided on the periphery thereof, said receiving area on said housing is slightly recessed to form a lower step.

5. (Amended) The improved structure of electronic target unit as in claim 1, wherein,

VERSION WITH MARKINGS TO SHOW CHANGES MADE

5 said sensitive target is made of vibration absorbing material, and is provided thereon with a plurality of enclosing walls with different diameters, each of said enclosing walls is provided at a lowermost position on the periphery thereof with a hole and a bullet passage in the rear of said hole; each of said bullet passages is provided therein with a photosensitive resistance to separately sense the hitting bullet number in a corresponding one of said enclosing walls.

6. (Amended) The improved structure of electronic target unit as in claim 1, wherein,

said sensitive target is made of vibration absorbing material, said sensing circuit on said sensitive target is formed by a multiplayer printing method.

7. (Amended) The improved structure of electronic target unit as in claim 1, wherein,

said scoring circuit is added with an acoustic electric circuit of which a horn is provided for making sounds when in hitting.

8. (Amended) The [An] improved structure of electronic target unit [for electronic guns] as in claim 3, wherein said target paper has a supporting paper frame provided on the periphery thereof, said receiving area on said housing is slightly recessed to form a lower step.